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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (previously presented): A water-based ink for producing a membrane electrode assembly for a fuel cell comprising:

an electrocatalyst,

an aqueous solution of an ionomer comprising predominantly water as the solvent, and a solvent which is substantially water with a smaller amount of an organic solvent as a co-solvent.

wherein said organic solvent is at least one linear dialcohol with a flash point higher than 100°C and being present in the ink in a concentration between 5 and 25 wt.%, with respect to the water content of the ink.

Claim 2: Cancelled

Claim 3 (previously presented): The ink according to Claim 1 wherein said linear alcohol is a dihydric alcohol wherein hydroxyl groups are not adjacent to each other.

Claim 4 (previously presented): The ink according to Claim 3 wherein said alcohol has a chain structure consisting of aliphatic CH₂ groups, optionally with oxygen atoms between said CH₂ groups.

Claim 5 (previously presented): The ink according to Claim 1, wherein said

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dialcohol is a member selected from the group consisting of ethylene glycol, diethylene glycol, propylene glycol, dipropylene glycol, butanediol and mixtures thereof.

Claims 6-8: Cancelled

Claim 9 (previously presented): The ink according to Claim 1, wherein said dialcohol is 1,2-propylene glycol or 1,3-propylene glycol.

Claim 10 (previously presented): The ink according to Claim 1, wherein said electrocatalyst is a noble metal-containing supported catalyst.

Claim 11 (previously presented): The ink according to Claim 1, wherein said electrocatalyst is a support-free catalyst.

Claim 12 (previously presented): The ink according to Claim 11, wherein said electrocatalyst is platinum black or platinum powder with high surface area.

Claim 13: cancelled

Claim 14: cancelled

Claim 15 (previously presented): The ink according to Claim 1, wherein the aqueous solution of the ionomer has an ionomer concentration of 10% in water.

Claim 16 (previously presented): A polymer electrolyte membrane coated with the ink of Claim 1

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Claim 17 (previously presented): A membrane electrode assembly with the ink of

Claim 1.

Claim 18 (previously presented): A gas distributor substrate coated with the ink of

Claim 1.

Claim 19 (previously presented): The ink according to claim 1, wherein the aqueous solution of the ionomer has an ionomer concentration of 20% in water.

Claim 20 (new): A process for improving adhesion of catalyst layers to membranes during production of membrane electrode assemblies for fuel cells, the process comprising use of a water-based ink comprising:

an electrocatalyst,

an aqueous solution of an ionomer comprising predominantly water as the solvent, and a solvent which is substantially water with a smaller amount of an organic solvent as a co-solvent,

wherein said organic solvent is at least one linear dialcohol with a flash point higher than 100°C and being present in the ink in a concentration between 5 and 25 wt.%, with respect to the water content of the ink.